

FGS

P. O. BOX 1468
MONAHANS, TEXAS 79786
PHONE 943-3234 OR 563-1040

Martin Water Laboratories, Inc

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Mark Wheeler LABORATORY NO. 780160
1900 Wilco Building, Midland, Texas SAMPLE RECEIVED 7-9-80
RESULTS REPORTED 7-16-80

COMPANY J.M. Huber Corp. LEASE Stoltz State SWD

FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE New Mexico

SOURCE OF SAMPLE AND DATE TAKEN:

- NO. 1 Backflow water - 40 barrels out of tubing. 7-8-80
- NO. 2 Backflow water - 140 barrels out of tubing. 7-8-80
- NO. 3 Backflow water - 260 barrels out of tubing. 7-8-80
- NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0256	1.0260	1.0272	
pH When Sampled				
pH When Received	7.1	7.0	7.0	
Bicarbonate as HCO ₃	1,342	1,465	1,440	
Supersaturation as CaCO ₃	180	200	200	
Undersaturation as CaCO ₃	-	-	-	
Total Hardness as CaCO ₃	3,300	3,800	4,000	
Calcium as Ca	900	1,060	1,160	
Magnesium as Mg	255	279	267	
Sodium and/or Potassium	11,703	12,507	12,719	
Sulfate as SO ₄	3,468	3,366	3,366	
Chloride as Cl	17,045	18,642	18,820	
Iron as Fe	312	6.9	2.3	
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	34,713	37,319	37,772	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	875	500	438	
Resistivity, ohms/m at 77° F.	0.227	0.213	0.211	
Suspended Oil				
Filtrable Solids as mg/l	309			
Volume Filtered, ml	290			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The above analyses reveal only a mild presence of spent acid in the 40 barrels out of the tubing as revealed by the iron content, but there is no evidence of any limestone or dolomite being dissolved in this water. The other two samples show no conclusive evidence of any acid though there could be a minute amount present and not be reflected due to the fact that it would be spent. However, the low calcium and magnesium indicate this is clearly insignificant if it is present at all. The filtrable solids in the 40 barrels sample indicated most of the suspension in the water was paraffin.